Notice of Allowability 10/648,315		Application No.	Applicant(s)	
### Notice of Allowability Examiner	Notice of Allowability	10/648 315	SHIBAYAMA NORIFLIMI	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address—All claims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith for previously malied, a Notice of Allowance (PTOL-86) or other appropriate communication will be malied in due course. THIS NOTICE OF ALLOWABILITY IS NOTA GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. □ This communication is responsive to				
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2. ☑ The allowed claim(s) is/are 1-9. 3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONNENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.** 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL. **Attachment(s)** 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Praftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7. ☑ Examiner's Statement of Reasons for Allowance of Biological Matental	All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative			
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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Sean McGinn (Registration No. 34,386) on April 6, 2007. The application has been amended as follows:

In the claims:

Claim 1, line 7, replace "subject" with --object--

Claim 3, line 2, replace "obtained every" with --obtained for every--

Claim 4, line 2, replace "obtained every" with --obtained for every--

Claim 6, line 2, replace "obtained every" with --obtained for every--

Claim 7, line 2, replace "obtained every" with --obtained for every--

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance: the essential difference from the prior art is evaluating a difference in the image value between an arbitrary position in the reference image with a position in the comparison image that is deviated from the arbitrary position by the stored matching point (parallax), wherein the reference image and the

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comparison image are a pair of images taken by a stereo camera. An area where the difference in the two positions is large is output and is determined to be an area indicating an intruding object. These features in combination with the other elements of the claim and the base claim are not disclosed or suggested by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citation of Pertinent Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Hagio et al., JP Patent No. 4-31996 discloses an intruding object detection apparatus that evaluates the difference between the pair of images obtained by a stereo camera with a reference image that is stored beforehand to determine a binary image of the changed area. Stereo matching is subsequently performed to determine the 3D position of the changed area.
- b. Kikazawa et al., JP Patent No. 2000-261787 discloses an intruding object detection apparatus that determines the distance to an object by performing stereo matching. A difference is evaluated between an image from one camera and another image from the same camera taken at an earlier time to determine a change area.
- c. Onda, U.S. Patent No. 5,719,954 discloses a stereo matching method and disparity measuring method that determines a matching point for the same object between a

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reference image and a comparison image, which make up a pair of images taken by a stereo

camera.

d. Seta et al., U.S. Patent No. 6,985,619 discloses a distance correcting apparatus for

a monitoring system that determines a matching point for the same object between a reference

image and a comparison image, which make up a pair of images taken by a stereo camera.

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Charles Kim whose telephone number is 571-272-7421. The

examiner can normally be reached on Mon thru Thurs 8:30am to 6pm and alternating Fri 9:30am

to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bhavesh Mehta can be reached on 571-272-7453. The fax phone number for the

organization where this application or proceeding is assigned is 571-272-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ar ck

April 6, 2007

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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